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WHAT IS CLAIMED IS:

- 1. An enucleation device comprising:
- a) a proximal end;
- b) a distal end comprising a cutting cap comprising a plurality of deformable blades;
- 5 and

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c) a shaft between the proximal end and the cutting cap;

where the plurality of deformable blades can cut material in a space when the blades not deformed, after accessing the space through a passage while the blades are deformed; and

where the passage has a smaller cross-sectional area than the lateral cross-sectional area of the undeformed blades while the blades are cutting the material.

- 2. The enucleation device of claim 1, where the shaft is flexible.
- 3. The enucleation device of claim 1, further comprising an axial guidewire lumen between the proximal end and the distal end.
 - 4. A method of cutting material in a space, comprising
 - a) providing the enucleation device of claim 1;
 - b) accessing the space with the enucleation device; and
 - c) actuating the device, thereby effecting cutting of the material.
 - 5. The method of claim 4, further comprising:

deforming the blades before actuating the device, and accessing the space through a passage while the blades are deformed;

where the passage has a smaller cross-sectional area than the lateral cross-sectional area of the undeformed blades while the blades are cutting the material.

- 6. The method of claim 4, where the passage is curved.
- 7. The method of claim 4, further comprising advancing and retracting the cutting device in the space to cut additional material.
- 8. The method of claim 4, where accessing the space comprises advancing the cutting device over a guide wire.

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9. The method of claim 4, where the material cut is selected from the group consisting of intervertebral disk and vertebral body endplate material.

- 10. The method of claim 4, where accessing the space comprising advancing the enucleation device through a transpedicular access passage in a vertebra.
 - 11. A method of cutting material in a space, comprising:
 - a) providing the enucleation device of claim 1;
 - b) creating a passage to access the space;

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- c) deforming the blades to fit through the passage;
- d) advancing the enucleation device through the passage until the cutting cap passes into the space, thereby allowing the blades to expand to their undeformed shape; and
 - e) actuating the enucleation device, thereby effecting cutting of the material;

where the passage has a smaller cross-sectional area than the lateral cross-sectional area of the undeformed blades while the blades are cutting the material.

- 12. The method of claim 11, further comprising advancing and retracting the cutting device in the space to cut additional material.
- 13. The method of claim 11, where advancing the cutting device through the passage comprises advancing the cutting device over a guide wire.
 - 14. The method of claim 11, where the passage is curved.
 - 15. The method of claim 11, where the material cut is intervertebral disk.
- 16. The method of claim 11, where the material cut is vertebral body endplate material.
- 17. The method of claim 11, where the passage is a transpedicular access passage in a vertebra.